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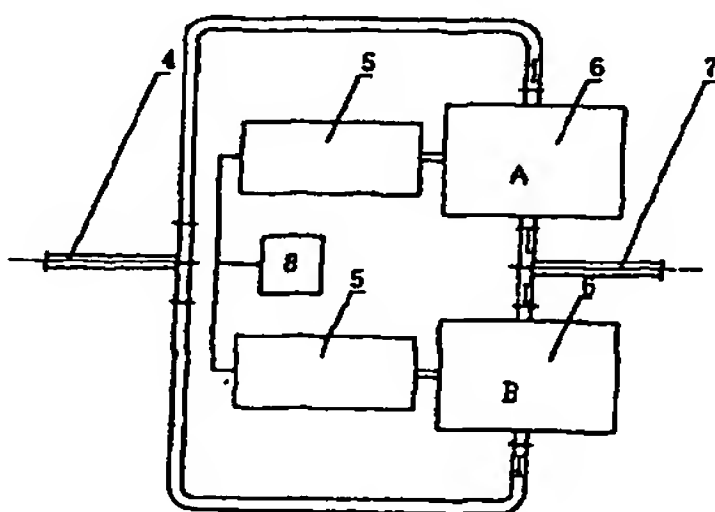
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(54) Title: A MULTIPLE DIFFERENTIAL VOLUME TUBE MEASUREMENT QUANTITATIVE CONVEYING
DEVICE AND ITS CONVEYING METHOD THEREOF

(54) 发明名称: 复合差动式体积管计量型定量输送装置及方法



(57) Abstract: The invention discloses a multiple differential volume tube measurement quantity conveying device and its conveying method thereof. The device includes volume tubes, inlet pipes and outlet pipes, in which there are at least two set of volume tubes divided into two groups. The inlet pipe of the volume tube is connected with a main inlet pipe and the outlet pipe of the volume tube is connected with a main outlet pipe. Drive mechanisms to be arranged to drive the volume tubes respectively. The drive mechanism is connected with a controller in complementary manner at the same time. The first step of conveying method is to confirm the conveying state of any referenced volume tube group. The second step is to decide the compensatory conveying volume and the conveying state of the other volume tubes according to the difference between the predetermined conveying volume and the conveying volume of the referenced volume tube groups. This invention improves the technical performance of the measurement and quantitative conveying of a volume tube device, measurement conveying pump and volume tube measurement conveying pump, in which the fluid flows smoothly and continuously. [见续页]

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(57) 摘要

一种复合差动式体积管计量型定量输送装置及其输送方法,其中输送装置包括体积管(6)、进液管和出液管;所述体积管(6)至少二套,分为至少二组;所述各组体积管的进液管接总进液管(7);所述各组体积管的出液管接总出液管(4);设置分别驱动所述各组体积管的驱动机构(5);所述驱动机构(5)同时连接按输出互补方式运行的控制器。所述输送方法的步骤包括:首先确定任一参照体积管组的输送状态;然后按照预设输送总量与参照体积管组输送量之差确定其余各体积管组的补差输送量及其输送状态。本发明提高了体积管装置、计量输送泵装置及体积管计量输送泵装置使流体介质平滑连续地计量和定量输送的技术性能。